State of New Hampshire
Department of Resources and Economic Development
DIVISION OF FORESTS AND LANDS
105 Loudon Road, Prescott Park, P.O. Box 856, Concord, N.H. 03301
John E. Sargent, Director Tel. (603) 271-2214

December 30, 1987

Margaret Miller-Weeks
Northeastern Area, State & Private Forestry
P. O. Box 640
Durham, NH 03824

Dear Margaret:

Here, at last, is New Hampshire's Forest Insect and Disease Conditions Report for 1987. Sorry it is so-o tardy. I had been looking for it in Novemebr except it slipped by unoticed.

HAVE HAPPY NEW YEAR !!!

Regards,

Alfred C. Avery,
Entomologist

Forest Protection (603) 271-2217
Forest Management (603) 271-3456
Land Management (603) 271-3456
Information & Planning (603) 271-3457

1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Spruce Budworm

(SPECIFIC NAME): Choristoneura fumiferana (clemens)

HOST: Balsam fir

PRESENT CONDITION: No evidence of budworm was observed or reported this year. Pheromone trapping failed to catch any moths again this year.

AREA - TOTAL ACRES: Trapping was conducted on 300,000 acres in northern Coos County.

LOCATION:

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

None.

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

Trend - Down and OUT !

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS:

1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Bruce Spanworm

(SPECIFIC NAME): Operophtera bruceata (Hulst)

HOST: Sugar Maple, Beech

PRESENT CONDITION: No evidence of defoliation or understory feeding was detected this year. Deployment of sticky traps caught an average of 0.02 per trap.

AREA - TOTAL ACRES:
409,900 acres all in Coos County.

LOCATION:

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:
No defoliation or feeding observed.

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:
Considered at or near endemic levels for the second year.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS:

1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Oak Leaftier

(SPECIFIC NAME): Croesia semipurpurana (Kearfott)

HOST: Red oak.

PRESENT CONDITION: Began pheromone trap monitoring this spring; caught moths in 9 out of 10 traps; also conducted a larval survey; confirmed presence in areas surveyed.

AREA - TOTAL ACRES: 16,160 acres.

LOCATION: Infestation lies along Cheshire County, NH and Franklin County, MA common border.

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

During 1987 aerial survey specifically for Oak Leaftier no defoliation was observed.

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

None determined at this time, however pockets of oak mortality are present from the heighth of the 1981-84 outbreak.

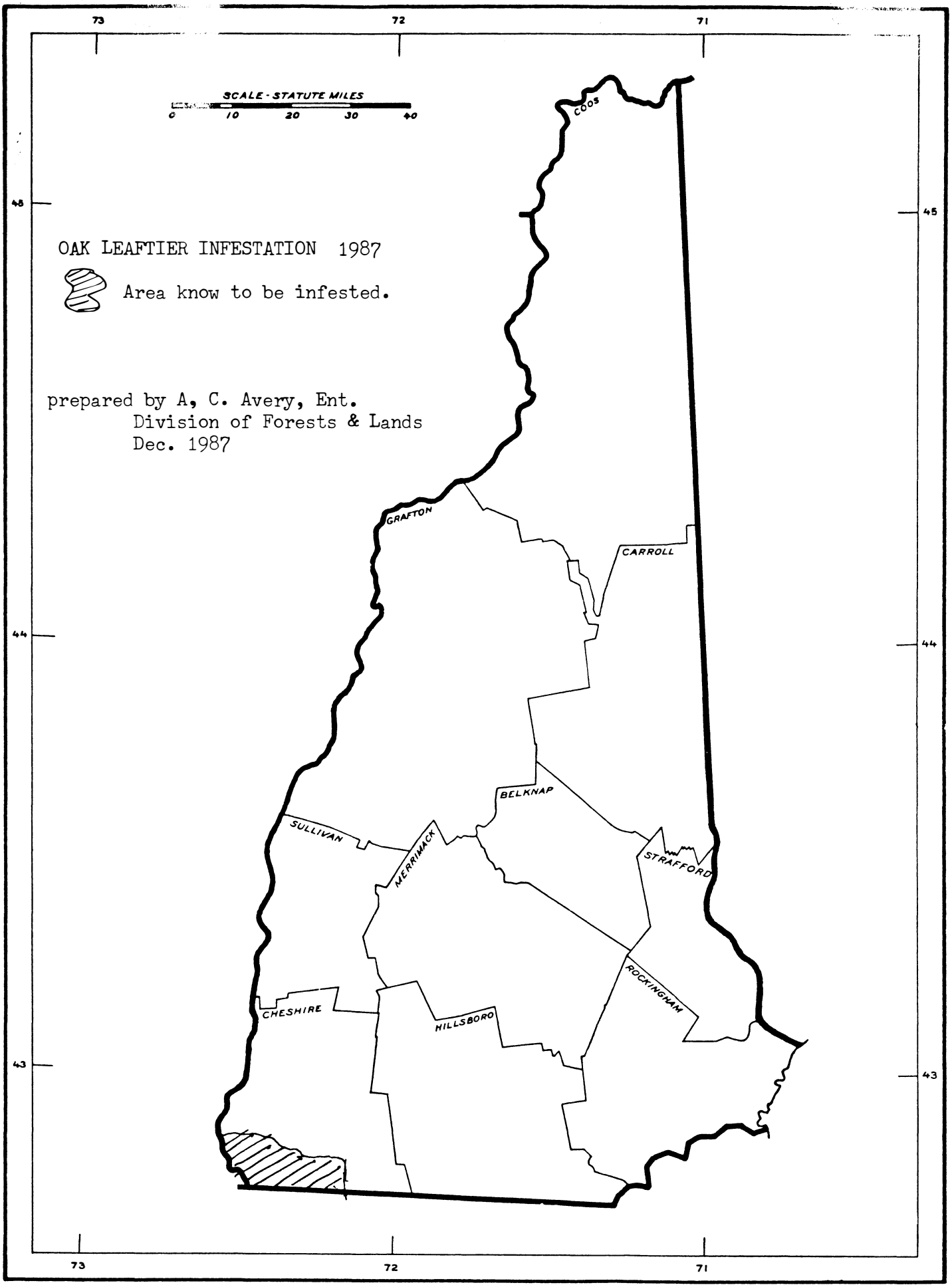
TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

Current egg counts on collected twigs indicate a building population capable of moderate defoliation in 1988.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS:

NEW HAMPSHIRE



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1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Hardwood Decline

(SPECIFIC NAME): Twig Dieback.

HOST: Hardwoods in general.

PRESENT CONDITION: Generally evident in hardwood stands north of the WMNF.

AREA - TOTAL ACRES: 938,000 acres.

LOCATION: Northern N. H., north of the White Mountain National Forest.

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

Preliminary analysis shows light to moderate decline present on sugar maple, yellow birch, red maple and white birch about equally; beech and quaking aspen to a lesser degree.

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

None made.

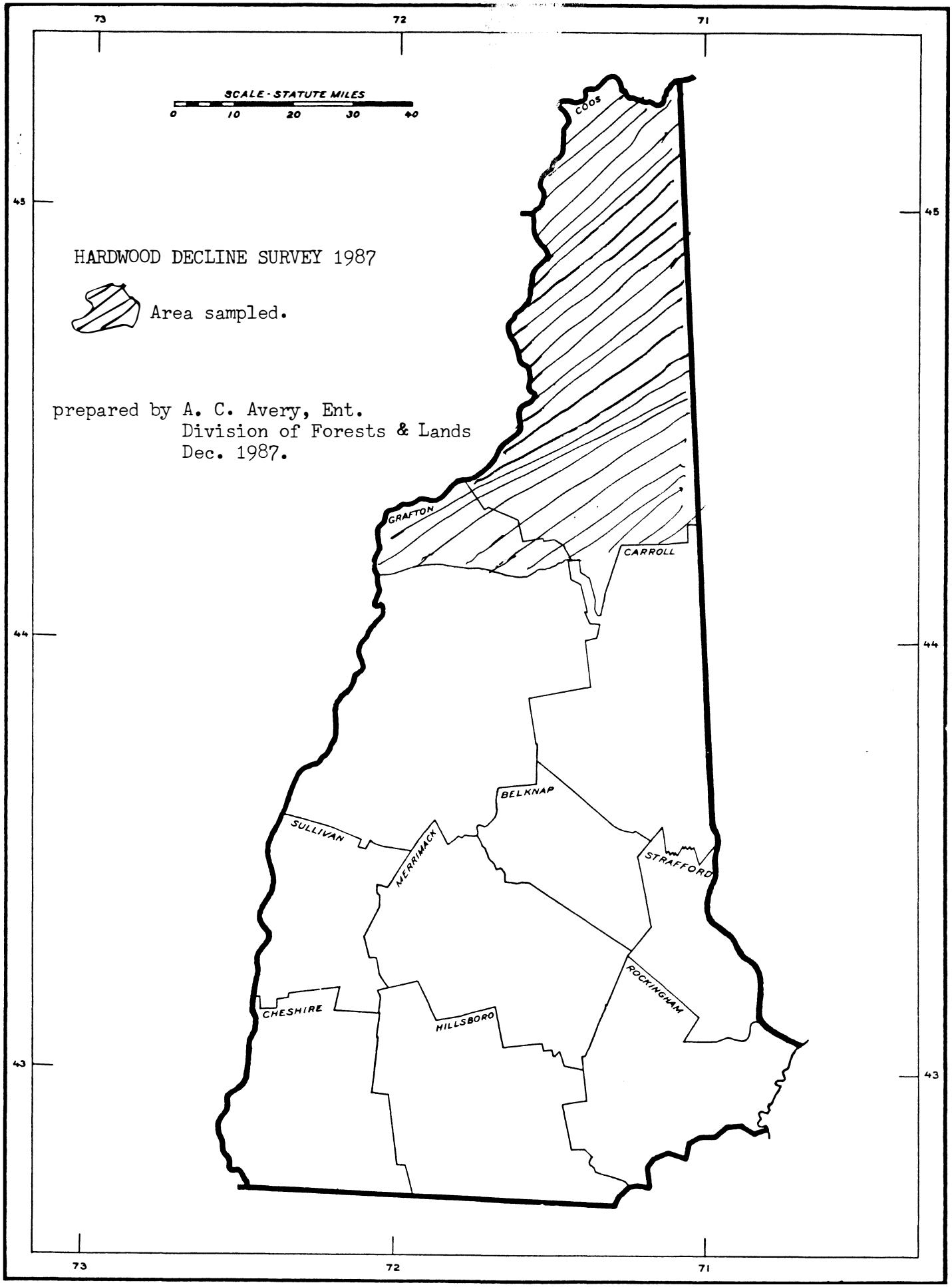
TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

Undetermined.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS:

NEW HAMPSHIRE



1987 PEST CONDITIONS REPORT WORK SHEET

PEST - (COMMON NAME): Gypsy Moth

(SPECIFIC NAME): Lymantria dispar (Linnaeus)

HOST: Various hardwoods with oak a high preference.

PRESENT CONDITION: the July aerial defoliation survey reported 290 acres of moderate to heavy defoliation and 90 acres of light.

AREA - TOTAL ACRES:
the aerial survey covered 3,300,000 acres.

LOCATION:
defoliation was located in Auburn, Derry & Londonderry, SE of Manchester.

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

290 acres of heavy defoliation
90 acres of light defoliation

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

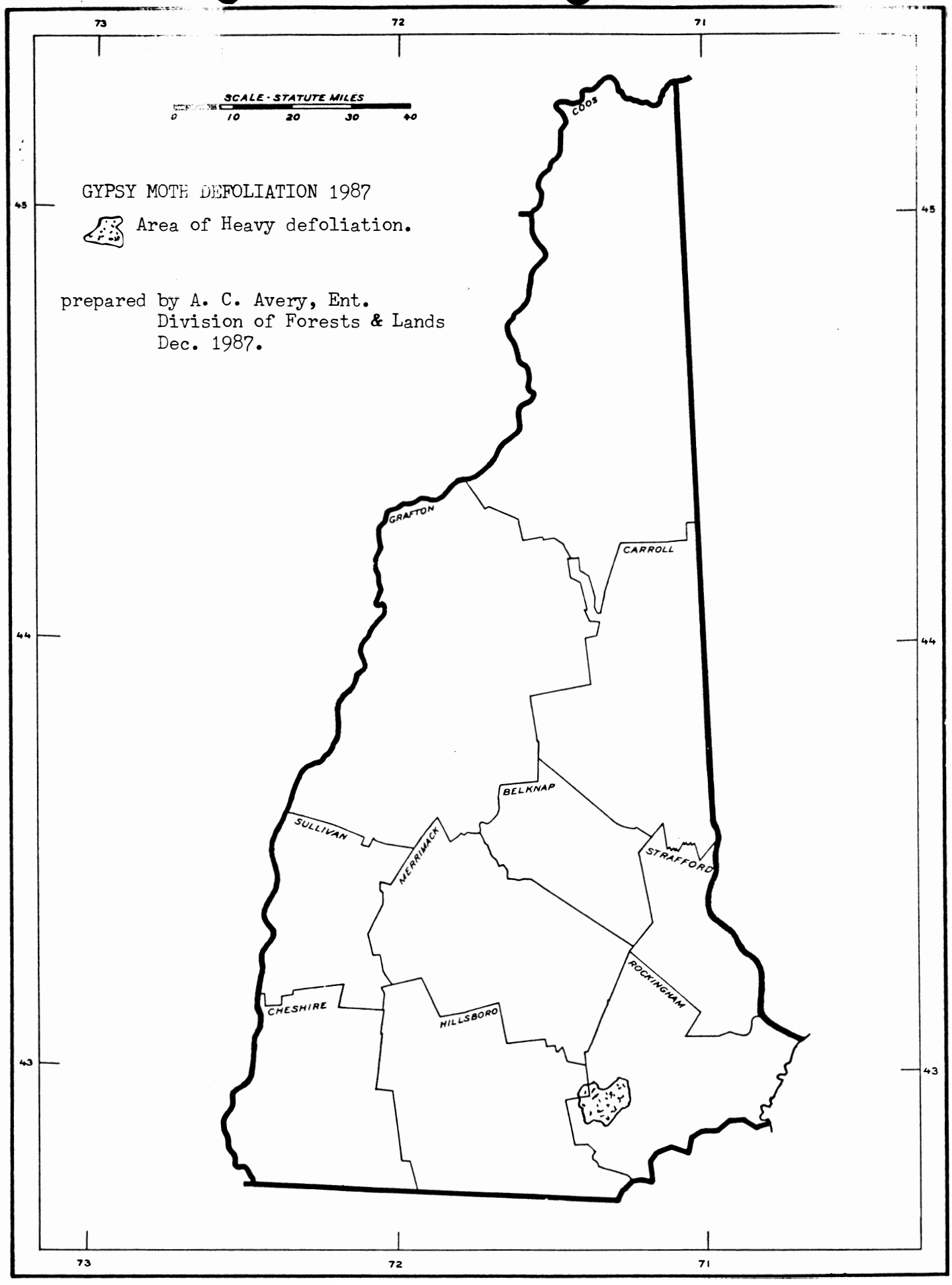
TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

1988 defoliation potential is expected to affect about 400 acres in the same general area. Trapping results gave an increase of 3 times last year's catch.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

ADDITIONAL COMMENTS:

NEW HAMPSHIRE



1987 PEST CONDITIONS REPORT WO[illegible]

PEST - (COMMON NAME): Gypsy Moth

(SPECIFIC NAME): Lymantria dispar

HOST: Oaks & other hardwoods & conifers

PRESENT CONDITION:

AREA - TOTAL ACRES: Ca 10

LOCATION: White Ledge Campground, WMNF

SEVERITY - INCLUDE ACRES OF MODERATE AND HEAVY DEFOLIATION OR INFECTION; DEFINE CLASSES:

Low

LOSSES - INCLUDE AREAS OF TREE MORTALITY; ALSO VOLUME AND/OR $ ESTIMATES:

None

TREND - CHANGES IN INCIDENCE AND SEVERITY OVER THE PAST FEW YEARS AND EXPECTATIONS FOR NEXT YEAR:

A building population in the area - highly susceptible.

CONTROL PROJECTS - METHOD, MATERIAL, ACRES, COST, RESULTS:

None

ADDITIONAL COMMENTS: